

CONTAINS NO CBI

Form Approved OMB No. 2010-0019 Approval Expires 12-31-89



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OPALICATION STATES OF THE EST AND STATES OF

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

Date of Receipt: _____

Document
Control Number: ____

Docket Number:

Docket Number:

EPA Form 7710-52

PART	Α (GENERAL REPORTING INFORMATION
1.01	Th	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
		inleted in response to the Fodoral Position with the first transfer of the fodoral Position with the first transfer of the first tra
<u>CBI</u>		restor in response to the redetal Register Notice of $\begin{bmatrix} 1 \\ 2 \end{bmatrix}$ $\begin{bmatrix} 2 \\ 2 \end{bmatrix}$ $\begin{bmatrix} 8 \\ 9 \end{bmatrix}$
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[0]2]6]4]7]1]-[6]2]-[5]$
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule NA
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	с.	If a chemical category is provided in the <u>Federal</u> <u>Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule NA
		CAS No. of chemical substance [_]_]_]_]_]_]_[]-[_]
		Name of chemical substance
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
CBI	Man	ufacturer
[_]		orter 2
		cessor(3
		manufacturer reporting for customer who is a processor
		processor reporting for customer who is a processor

CBI	Does the substance you are reporting on have an " x/p " designation associated with in the above-listed Federal Register Notice?	it
[_]	Yes $[\overline{X}]$ Go to question No $[\overline{D}]$ Go to question	1.04
1.04 <u>CBI</u> []	a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Noticele the appropriate response. Yes	ce? 1(2
1.05 <u>CBI</u>	If you buy a trade name product and are reporting because you were notified of yo reporting requirements by your trade name supplier, provide that trade name. Trade name	. (ì
1.06 CBI	Certification The person who is responsible for the completion of this form musing the certification statement below: 'I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate." R. J. Sansone R. J. Sansone NAME Office Manager (803) 877 - 1863 TITLE TITLE	st
	ark (X) this box if you attach a continuation sheet.	

1.0# <u>CBI</u> []	Exemptions From Reporting with the required information within the past 3 years, and for the time period specified are required to complete sect now required but not previous submissions along with your S	on a CAIR this inform this inform in the rul- tion 1 of the tly submitted	Reporting Form for the ation is current, accure, then sign the certifies CAIR form and provide.	listed substance rate, and complete rication below. You le any information
	"I hereby certify that, to th information which I have not to EPA within the past 3 year period specified in the rule.	included in s and is cu	this CAIR Reporting Fo	orm has been submitted
	NA			
	NAME		SIGNATURE	DATE SIGNED
		() –	•
	TITLE		TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
1.08	CBI Certification If you h certify that the following st those confidentiality claims	atements tr	uthfully and accurately	s report you must apply to all of
<u>CBI</u>	"My company has taken measure and it will continue to take been, reasonably ascertainabl using legitimate means (other a judicial or quasi-judicial information is not publicly a would cause substantial harm	these measu e by other than disco proceeding) vailable el	res; the information is persons (other than govery based on a showing without my company's cosure and disclosure	s not, and has not vernment bodies) by g of special need in consent; the
	NA			
	NAME		SIGNATURE	DATE SIGNED
	TITLE	(TELEPHONE NO.	
				,
-		· · · · · · · · · · · · · · · · · · ·	777	
[_]	Mark (X) this box if you attac	h a continu	ation sheet.	

PART	
1.09	Facility Identification
<u>CBI</u>	Name [6]0]0]0]4]9]0]1]]]]]1]1]1]1]1]1]1]1]1]1]1]1]1]1]1
	(6)[[][][][][][][][][][][][][][][][][][][
	<u>S C </u> 2 9 4 5 0 [1 3 8 8 State
	Dun & Bradstreet Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code
	Other SIC Code
1.10	Company Headquarters Identification
<u>CBI</u>	Name [T]h]e] [G]o]o]d]y]e]a]r] [T]i[r]e]&]R[u]b]b]e]r] [C]
	Address $[1]1]4]4]]E]a]s]t]]M[a]r]k[e]t]]S[t]r]e]e]t]]]]$
	(A k r o n
	$ \begin{array}{c c} \hline $
	Dun & Bradstreet Number $(0)0-(4)4-(7)924$
	Employer ID Number

[_] Mark (X) this box if you attach a continuation sheet.

1-11	Parent Company Identification
· <u>CBI</u>	Name [T]hlellGlololdlylela r T i r e & R u b b e r C
li	Address [1]1]4]4] E a S t M a r k e t S t r e e t T T E E T T T E E T T
	[A]k r a n - - - - - - - - - - - - - - - - -
	Dun & Bradstreet Number
1.12	Technical Contact
CBI	Name $[\underline{G}]\underline{\alpha}]\underline{\Gamma}[\underline{V}]\underline{-}[\underline{M}]\underline{o}[\underline{\Gamma}]\underline{F}[\underline{o}]\underline{N}]\underline{-}]\underline{-}]\underline{-}]\underline{-}]\underline{-}]\underline{-}]\underline{-}]-$
[_]	Title [5]e r v] c e - Mawaagle r - - - - - - - - - - - - - - - - - -
	Address $[P] 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 $
	[[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	Telephone Number $[8]0]3]-[8]5]-[7]8]6]3]$
1.13	This reporting year is from $[\overline{0}] \overline{1}] [\overline{8}] \overline{8}]$ to $[\overline{1}] \overline{2}] [\overline{8}] \overline{8}]$ Mo. $[\overline{1}] \overline{2}] [\overline{8}] \overline{8}]$
[_]	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired	d If you purchased this facility during the reporting year, owing information about the seller:	
	•	(NA)	
<u>CBI</u>	Name of Seller []]
[_]	Mailing Address	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]_]
		(_ _	J <u></u>
]]
	Employer ID Numbe	er[_]_]_]_]_]_]]]
		[_]_] [_]] <u>-</u>] ear
	Contact Person [<u>] </u>
	Telephone Number]]
1.15	Facility Sold following informa	If you sold this acility during the reporting year, provide the ation about the buyer:	
CBI	Name of Buyer [_]]
[_]	Mailing Address	[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]	<u> </u>
		[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]]!
		[_]_] [_]_]_]]]]]]]]]
	Employer ID Numbe	er[_]_ _ _]_	<u>; </u>
	Date of Purchase	(] <u> </u>
	Contact Person []
	Telephone Number	(_)]
			,
[_]	Mark (X) this box	if you attach a continuation sheet.	

]	Classification	Quantity (kg/
	Manufactured	. <i>Q</i>
	Imported	
	Processed (include quantity repackaged)	
	Of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	. NA
	For on-site use or processing	
	For direct commercial distribution (including export)	
	In storage at the end of the reporting year	
	Of that quantity processed, report that quantity:	
	In storage at the beginning of the reporting year	145 (2)
	Processed as a reactant (chemical producer)	
	Processed as a formulation component (mixture producer)	
	Processed as an article component (article producer)	
	Repackaged (including export)	
	In storage at the end of the reporting year	
	to a samply date of the contract of the contra	· 19,7(2014

chemical. (If the mixture each component chemical for CBI	Composition in the Land	quired to report is a mixture ormation for each component port an average percentage of
Component Name	Supplier Name	Average % Composition by Weight (specify precision,e.g., 45% ± 0.5%)
TDI Prepolymer	ARNCO	40 ± 5.0
Petroleum Hydrocarbon	ARNCO	55 + 5.0
Toluene Diisocyanate	ARNCO	4.0 ± 0.5
		Total 100%

[] Mark (X) this box if you attach a continuation sheet.

2.04	State the quantity of the listed substance that your facility manufactured, imported or processed during the 3 corporate fiscal years preceding the reporting year in descending order.
CBI	
[_]	Year ending
	Quantity manufactured
	Quantity imported θ k
	Quantity processed
	Year ending
	Quantity manufactured
	Quantity imported
	Quantity processed
	Year ending $[1]2][8]5$ Mo. Year
	Quantity manufactured
	Quantity imported
	Quantity processed
2.05 CBI	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.
	NA
ι,	Continuous process
	Semicontinuous process
	Batch process
**	
<u> </u>	Mark (X) this box if you attach a continuation sheet.

2.06 CBI	Specify the manner in appropriate process ty	which you processed types.	the listed substance.	Circle all
<u></u>				
	Continuous process		• • • • • • • • • • • • • • • • • • • •	
	Semicontinuous process		••••••	
	Batch process	••••••		3
2.07	State your facility's substance. (If you ar question.)	name-plate capacity f e a batch manufacture	or manufacturing or per or batch processor.	rocessing the listed
CBI	question.)		,	To mot dissect this
[_]	Manufacturing capacity	NA		
	Manufacturing capacity			kg/yr
	Processing capacity .	• • • • • • • • • • • • • • • • • • • •		kg/,yr
2.08 CBI	If you intend to incre manufactured, imported year, estimate the inc volume.			
[-]		Manufacturing	<u>.</u> .	
·—·		Quantity (kg)	Importing Quantity (kg)	ProcessingQuantity (kg)
	Amount of increase			PP 2
	Amount of decrease			- 00/)
	•	·		

2.09	substan	ce durin h proces	argest volume manufacturing or processing procese, specify the number of days you manufactured of the reporting year. Also specify the average s type was operated. (If only one or two opera	or processed	the listed
CBI					
[_]				Days/Year	Average Hours/Day
	Process	Type #1	(The process type involving the largest quantity of the listed substance.)		
			Manufactured		
			Processed	45	_ 4
	Process	Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		•
		•	Manufactured		
			Processed	NA	****
	Process	Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
			Manufactured		_
			Processed	NA	
2.10 CBI [_]	chemical	daily in	and daily inventory and average monthly inventor was stored on-site during the reporting year in inventory.	y of the is the form of	ted a bulk kg
\	•			_	
[_]	Hark (Σ)	this bo	ox if you attach a continuation sheet.	•	

CAS No.	o the product (e.g., ca	Byproduct, Coproduct	Concentration (%) (specify ±	Source of By products, Coproducts, or
CAS NO.	Chemical Name	or Impurity ¹	% precision)	Impurities
	-			
				•
	wing codes to designate	hyproduct copro	duct. or impurity	<i>†</i> :
¹ Use the follow B = Byproduct C = Coproduct I = Impurity		opproduct, copro	The second secon	
B = Byproduct C = Coproduct	The cours to designate	opproduct, copro	The second secon	
B = Byproduct C = Coproduct	The cours to designate	opproduct, copro		
B = Byproduct C = Coproduct		opproduct, copro		
B = Byproduct C = Coproduct		opproduct, copro		
B = Byproduct C = Coproduct		opproduct, copro		
B = Byproduct C = Coproduct		opproduct, copro	·	

[] Mark (X) this box if you attach a continuation sheet.

a.	b.	c.	d.
	% of Quantity Manufactured,	% of Quantity	
Product Types ¹	Imported, or Processed	Used Captively On-Site	Type of End-Users
X	100	100	
			I, CM
			-
		_	
B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsif J = Flame retardant K = Coating/Binder/Adh Use the following code I = Industrial	/Accelerator/ er/Scavenger/ /Sequestrant /Degreaser modifier/Antivear ier esive and additives	<pre>M = Plasticizer N = Dye/Pigment/Co O = Photographic/Re and additives P = Electrodeposit Q = Fuel and fuel R = Explosive chem S = Fragrance/Flave T = Pollution cont U = Functional flu V = Metal alloy and U = Rheological mod X = Other (specify)</pre>	icals and additives or chemicals rol chemicals ids and additives different additions
² Use the following code	s to designate the	type of end-users:	, . <u> v. v</u>

CBI	Expected Product Types import, or process using corporate fiscal year. import, or process for substance used during used captively on-site types of end-users for explanation and an example of explanation and examples in the explanation of th	ng the listed substa For each use, spece each use as a perce the reporting year. as a percentage of each product type.	nce ify ntag Als the	at any time after the quantity you se of the total vo so list the quanti value listed unde	your current expect to manufacture, lume of listed ty of listed substance ex column b and the
	а.	b.		с.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed		% of Quantity Used Captively On-Site	Type of End-Users ²
	<u> </u>	100		100	I, CM
					•
			_		-
			_		
	² Use the following code I = Industrial	t c/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear fier nesive and additives es to designate the CS = Cons	L = M = N = O = P = Q = R = V = V = V = type	Moldable/Castable Plasticizer Dye/Pigment/Color Photographic/Repand additives Electrodeposition Fuel and fuel ad Explosive chemical Fragrance/Flavor Pollution control Functional fluid Metal alloy and Rheological modification (specify) of end-users:	als and additives chemicals labeled chemicals labeled and additives additives
	CM = Commercial	H = 0the			····
[_1	Mark (X) this box if yo	ou attach a continua	tion	sheet.	

	b.	c. Average % Composition of	d.
Product Type ¹	Final Product's Physical Form ²	Listed Substance in Final Product	Type of End-Users
X	Н	< 0.01	I, CM
¹ Use the following	codes to designate pro	duct types:	
<pre>agent I = Surfactant/Emul J = Flame retardant K = Coating/Binder/</pre>	ator/Accelerator/ ilizer/Scavenger/ gent lant/Sequestrant gent/Degreaser tion modifier/Antiwear lsifier t /Adhesive and additive codes to designate the F2 = Cry F3 = Gra on F4 = Oth G = Gel	<pre>U = Functional fluid V = Metal alloy and W = Rheological modi s X = Other (specify) final product's physi stalline solid nules er solid</pre>	rant/Ink and addi rographic chemica n/Plating chemica ditives als and additives chemicals l chemicals s and additives additives additives fier Article-Flat proc
3,,	codes to designate the	type of end-users:	

2.15 CBI	Circ list	le all applicable modes of transportation used to deliver ed substance to off-site customers.	bulk shipments of the	he
` [<u>_</u>]'	Truc	k	• • • • • • • • • • • • • • • • • • • •	(1)
		car		~ \ /
		e, Vessel		
		line		_
		e		
		r (specify)		_
				Ō
2.16 <u>CBI</u>	Or p	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for unduse listed (i-iv).	used by your customese under each catego	ers ry
[]	Cate	gory of End Use		
	i.	Industrial Products		
		Chemical or mixture	Ð L	g/yr
		Article	· KO C	g/yr
	ii.	Commercial Products		6, 3, 2
		Chemical or mixture	₽ k	g/yr
		Article	15/	g/yr
	iii.	Consumer Products		0 7 -
		Chemical or mixture	· D k	g/yr
		Article	^	g/yr
	iv.	Other		0)
		Distribution (excluding export)	O k	g/yr
		Export	^	g/yr
		Quantity of substance consumed as reactant		g/yr
		Unknown customer uses	0	g/yr
				J , -
	·			
[_]	Mark	(X) this box if you attach a continuation sheet.		

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

3.01 <u>:BI</u>	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.	paid for the list es are treated as that was traded f	ed substance purchases. or the listed
	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.	,	
	The listed substance was transferred from a different company site.		•
	The listed substance was purchased directly from a manufacturer or importer.		
	The listed substance was purchased from a distributor or repackager.		
	The listed substance was purchased from a mixture producer.	176.6	2,00
	Truck Railcar Barge, Vessel Pipeline Plane Other (specify)		
	Mark (X) this box if you attach a continuation sheet.		

3.03 aa.	Circle all applicable containers used to transport the listed substance to your facility.
[_]	Bags 1
	Boxes 2
	Free standing tank cylinders 3
	Tank rail cars
	Hopper cars 5
	Tank trucks 6
	Hopper trucks 7
	Drums
	Pipeline 9
	Other (specify)
b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
	Tank cylinders
	Tank rail cars
	Tank trucks
	mmHg

CBI	of the mixture, the name of its supplier(s) or manufacturer(s), an estimate average percent composition by weight of the listed substance in the mixture amount of mixture processed during the reporting year.							
	Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify <u>+</u> % precision)	Amount Processed _(kg/yr)				
	Wingfil Part A	ARNCO	4.0 + 0.5	<u> </u>				
				7410				
				-				
				•				
	·							

3.05 CBI	State the quantity of the reporting year in the for the percent composition,	listed substance used as a r m of a class I chemical, clas by weight, of the listed subs	raw material during the ss II chemical, or polymer, and stance.
	Class I chemical	Quantity Used (kg/yr)	% Composition by Weight of Listed Substance in Raw Material (specify ± % precision 4.0 + 0.5
	Class II chemical	6	•
	Polymer		

C	en	01	· a l	Т,	ne	+ +1		+ 5	on s	٠.
u	C.I.		aı		1.5		44.		1111	

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

ranı	A PHYSICAL/CHEMICAL DAT	A SUMMARY		
4.01 CBI	substance as it is manu substance in the final	ity for the three major factured, imported, or product form for manufact at the point you begin	processed. Measure the cturing activities, at n to process the substa	e purity of the the time you unce.
		Handracture	Import	Process
	Technical grade #1	% purity	% purity NA-m	i <u>xture</u> % purit
	Technical grade #2	% purity	% purity	% purit
	Technical grade #3	% purity	% purity	% purit
4.02	¹ Major = Greatest quant	ity of listed substance	manufactured, imported	or processed.
	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develo version. Indicate whet		manufactured, imported ety Data Sheet (MSDS) f g the listed substance. ed by a different source	for processed. For the listed If you posses
4 - 02	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develo version. Indicate whet appropriate response.	ity of listed substance ly updated Material Safe y formulation containing ped and an MSDS develope	manufactured, imported ety Data Sheet (MSDS) f g the listed substance. ed by a different source as been submitted by ci	for processed. For the listed If you posses te, submit your crcling the
4.02	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develo version. Indicate whet appropriate response. Yes	ity of listed substance ly updated Material Safe y formulation containing ped and an MSDS develope her at least one MSDS ha	manufactured, imported ety Data Sheet (MSDS) f g the listed substance. ed by a different source as been submitted by ci	for the listed If you posses te, submit your troling the
4 - 02	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develo version. Indicate whet appropriate response. Yes	ity of listed substance ly updated Material Safe y formulation containing ped and an MSDS develope her at least one MSDS ha	manufactured, imported ety Data Sheet (MSDS) f g the listed substance. ed by a different source as been submitted by ci	for the listed If you posses te, submit your recling the
4 - 02	1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develo version. Indicate whet appropriate response. Yes	ity of listed substance ly updated Material Safe y formulation containing ped and an MSDS develope her at least one MSDS ha	manufactured, imported ety Data Sheet (MSDS) f g the listed substance. ed by a different source as been submitted by ci	for the listed If you posses ee, submit your reling the
4.02	<pre>1 Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develo version. Indicate whet appropriate response. Yes</pre>	ity of listed substance ly updated Material Safe y formulation containing ped and an MSDS develope her at least one MSDS has DS was developed by your	manufactured, imported ety Data Sheet (MSDS) f g the listed substance. ed by a different source as been submitted by ci	for the listed If you posses e, submit your reling the



HATERIAL SAFETY DATA SHEET

REVISION DATE June 4 , 1986

I. GENERAL INFORMATION

PRODUCT NAME : WING-FIL COMPONENT "A"

CHEHICAL NAME : TDI Prepolymer plus Petroleum Hydrocarbon

CHEHICAL FAHILY : Isocyanate Prepolymer and Petroleum Hydrocarbon

: Proprietary DOT HAZARD CLASS : UN2078 (TDI) HANUFACTURER

: ARNCO, 5141 Firestone Place, South Gate, CA 90280-3570

Phone No: (213)567-1378

CHEMTREC Phone No: (800)424-9300 District of Columbia: (202)483-7616

II. INGREDIENTS

Components	TLV	Flash Point OF	Boiling Point OF	Vapor Press. mm Hg	Vapor Dens. (Air=1)	Flammable Limit LEL UEL
TDI Prepolymer	0.02ppm 0.2mg/m3	Not Estab.	Not Estab.	0.02 @77°F.	6.0	Not Estab.
Petroleum Hydrocarbon	0.2mg/m ³ TWA-ACGIH	>300	>550	<1.0 @68°F.	<0.1	No Data Available

III. PHYSICAL DATA

BOILING POINT (°F) : 464 VAPOR PRESSURE (mm Hg) : SEE SECTION II

VAPOR DENSITY (Air=1) : SEE SECTION II SOLUBILITY IN WATER, \$

: Insoluble. Reacts with water to liberate

CO₂ gas.

APPEARANCE & ODOR : Dark brown liquid. Sharn pungent odor. SPECIFIC GRAVITY (H20=1) : 1.01

* VOLATILE BY VOLUME : Negligible

EVAPORATION RATE (Ether=1): Not Established

IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (°F)

: 320

FLAHHABLE LIHITS

·: Not Established

EXTINGUISHING HEDIA

: Dry chemical, chemical foam, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full emergency equipment with self-contained pressure-demand breathing apparatus. Use water to cool fire-exposed containers. Eliminate all sources of ignition.

UNUSUAL FIRE & EXPLOSION HAZARDS: During a fire, toxic gases are genererated. Closed containers may explode from extreme heat or from water contamination. DO NOT reseal water-contaminated containers, as pressure buildup up may cause violent rupture of the container.

V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 0.02 ppm; 0.2 mg/m³

SYMPTOMS OF EXPOSURE:

INHALATION: May cause dizziness and nausea. Irritation of the upper and lower respiratory tract. Some individuals may develop isocyante hypersensitization and must avoid further exposure to even low isocyanate levels. Inhalation of mists may present a canoer hazard sinusitis brochitis. asthma, and impaired ventilatory capacity can occur in some individuals.

INGESTION: Irritation and corrosive action in the mouth, stomach and digestive tract. Possibly liver toxicity. Aspiration into the lungs can cause chemical pneumonitis which can be fatal.

EYES: Liquid, vapors, or mist can cause sever irritation, redness, tearing, blurred vision and possibly irreversible damage to the eye.

SKIN: Irritation and allergic sensitivity may occur for some individuals, producing reddening, swelling or blistering, and skin sensitization, possibly resulting in dermatitis. This product contains petroleum oils similar to those catogarized by the International Agency for Research on Cancer (IARC) as causing skin cancer in mice after prolonged and repeated contact. Any potential hazard can be minimized by using recommended protective equipment to avoid skin contact and by washing thoroughly after handling.

SMIRCO

5141 FIRESTONE PLACE + SOUTH GATE CAUFORNIA 90280 + (213) 567-1378 + (213) 567-0587 + TWX 910-321-4156

V. HEALTH HAZARD DATA (continued)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing unspecific bron-chial hypersensitivity and, potentially, any allergies.

PRIMARY ROUTES OF ENTRY: Inhalation and skin contact.

EMERGENCY FIRST AID:

INHALATION: Remove victim to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, apply artificial respiration, and get medical attention immediately. NOTE TO PHYSICIAN: Treat symptomatically: bronchodilators; oxygen.

INGESTION: DO NOT INDUCE VOMITING. Aspiration can be fatal. Give a glass of milk or water, keep patient quiet and warm, and get prompt medical attention.

EYES: Flush immediately with water for at least 15 minutes, occasionally lifting the eyelid, and get prompt medical attention.

SKIN: Remove contaminated clothing and launder before reuse. Wash affected skin with soap and water. Consult a physician if swelling or reddening occurs.

VI. REACTIVITY DATA

STABILITY: Stable under normal, recommended storage conditions.

CONDITIONS TO AVOID: Open flame and storage temperatures above 120°F

INCOMPATIBILITY: Materials to avoid are water. alcohols, ammonia, amines, and alkalis. Contaminated containers should be left vented and be moved to a safe area for neutralization and proper disposal.

HAZARDOUS POLYMERIZATION: Hay occur.

CONDITIONS TO AVOID: Exposure to high temperature, or resealing of containers contaminated with materials listed under INCOMPATIBILITY (materials to avoid).

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, nitrogen oxides, sulfur oxides, unidentified organic compounds, and traces of hydrogen cyanide (HCN).

8mrco

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VII. ENVIRONMENTAL PROTECTION PROCEDURES

SPILL RESPONSE: Evacuate and ventilate the area. Eliminate all sources of ignition. Respiratory protection must be worn during cleanup. Cover the spill with sawdust, vermiculite, or other absorbent material. Scoop and place in open container and remove to well ventilated area to be treated with a decontamination solution made up of 20% Tergitol TMN-10 (Union Carbide) and 80% water; or 5% concentrated ammonia, 2% detergent, and 93% water. Leave the container open for 24-48 hours. Wash down the spill area with decontamination solution. For major spills call CHEMTREC: (800)

WASTE DISPOSAL METHOD Decontaminated waste must be disposed of in accordance with Federal, State, and local environmental control regulations. It is your duty to comply with the Clean Air Act, Clean Water Act, and Resources Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Chemical workers goggles or full-face shield. lenses should not be worn in or near work area. Contact

RESPIRATORY PROTECTION: HSHA/NIOSH approved positive-pressure air-supplied respirator with full-face shield. Organic vapor filters are not effective against TDI vapor. The vapor pressure of TDI is such that at normal temperatures, vapor concentration in the air will exceed the TLV of 0.02 ppm.

SKIN PROTECTION: Impervious, chemical resistant (natural rubber) gloves, arm covers, aprons or coveralls, boots and caps.

VENTILATION RECOMMENDED: General mechanical ventilation and local exhaust. to maintain vapor concentration below the TLV.

OTHER PROTECTION: Safety showers and eye wash stations must be easily accessible. Provide a dry nitrogen blanket in bulk storage tanks.

IX. SPECIAL PRECAUTIONS

HYGIENIC PRACTICES IN HANDLING & STORAGE: Store below 100°F, preferably below 90°F, in tightly-closed containers to prevent atmospheric moisture contamination. DO NOT reseal if contamination is suspected. DO NOT store near open flame or high heat.

Wear protective equipment to prevent eye and skin contact. DO NOT breath vapors. Wash hands before eating or smoking.

Since emptied containers retain product residues (vapor or liquid), all hazard precautions given in this MSDS must be observed. For proper container disposal, fill with water and allow to stand unsealed for at least 48 hours then dospose of in accordance with Federal, State and local environmental control regulations.

THE INFORMATION IN THIS HSDS IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF ARNCO. THE DATA ON THIS MSDS RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. ARNCO ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS DATA.

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4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No 2
4.04	For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity
	listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for

		Phy:	sical State		
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas
Manufacture	1	2	3	4	5
Import	1	2	3	4	5
Process	1	2	3	4	5
Store	1	2	3	4	5
Dispose	1	2	3	4	5
Transport	1	2	3	4	5

[[]_] Mark (X) this box if you attach a continuation sheet.

				he final		,	
Physical State		Manufacture	Import	Process	Store	Dispose	Trans
Dust	<1 micron		6-Pareless	NA			
	1 to <5 microns			NA			
	5 to <10 microns	-		NA			
Povder	<1 micron			NA	·		-
	1 to <5 microns			NA			
	5 to <10 microns			NA NA			
Fiber	<1 micron			NA			
	l to <5 microns			NA			
	5 to <10 microns			NA		=1	
	,						3
Aerosol	<l micron<="" td=""><td>·</td><td></td><td>NA</td><td></td><td></td><td></td></l>	·		NA			
	1 to <5 microns			AM			
	5 to <10 microns			NA		•	

[] Mark (X) this box if you attach a continuation sheet.

SECTION 5 ENVIRONMENTAL FATE

l In	dicate the rate constants for the following transfo	rmation processes.	
a.	Photolysis:		
	Absorption spectrum coefficient (peak)	(1/M cm) at	
	Reaction quantum yield, 6	at	n
	Direct photolysis rate constant, k_p , at	1/hr	lati
ь.	Oxidation constants at 25°C:		
	For ¹ 0 ₂ (singlet oxygen), k _{ox}		1
	For RO ₂ (peroxy radical), k _{ox}		1
с.	Five-day biochemical oxygen demand, BOD ₅		m
d.	Biotransformation rate constant:		
	For bacterial transformation in water, $k_b \dots$		1
	Specify culture		
e.	Hydrolysis rate constants:		
	For base-promoted process, k _B		1
	For acid-promoted process, k,		
	For neutral process, k _k		
f.	Chemical reduction rate (specify conditions)		
g.	Other (such as spontaneous degradation)		

5.02	a.	Specify the half-l	ife of the li	sted subst	ance in the	followin	a modi		
					VA-Mixture	10110#111	g mear	a.	
		Media			Half-life	e (specif	y unit	<u>s)</u>	
		Groundwater					_		
		Atmosphere	_					-	
		Surface water							
		Soil							
	Ъ.	Identify the lister life greater than	d substance's 24 hours.				that I	have a	ı half_
		CAS No.	<u>N</u> a	ame	Half-li (specify			Med	lia
			-				in		· · · · · · · · · · · · · · · · · · ·
			**************************************		_	707-	in		
							in		
			-		_		in		
5.03	Spe	cify the octanol-war	ter partition	coefficien	IA-Mixture		-1/21		_ at 25°0
		hod of calculation (
5.0/	C				A-Mixture				
3.04	Spe	cify the soil-water	partition coe	efficient,	К _а				_ at 25°C
	501	l type	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •				-
5.05	Spe	cify the organic car fficient, K	bon-water par	tition	JA-Mixture				at 25°C
5.06	Spe	cify the Henry's Law	Constant, H		MA-Mixture			atm	ı-m³/mole

[_]	Mari	k (X) this box if yo	u attach a co	ntinuation	sheet.	W 760	***************************************		

Bioconcent	tration Factor	NA-Mixture Species	Test ¹
			<u> </u>
*** · · · · · · · · · · · · · · · · · ·			
		144	
¹ Use the f	following codes to des	signate the type of test:	~~
F = Flowt	hrough	5,71 01 050	
S = Stati	.c		·
			·

6.04 '- <u>CBI</u> '•	For each market listed below, state the listed substance sold or transfe	the quantity sold and the to	otal sales value of orting year.
[_]			
	Market \	Quankity Sold or Transferred (kg/yr)	Total Sales Value (\$/yr)
\	Retail sales		
	Distribution Wholesalers		
	Distribution - Retailers		
	Intra-company transfer		
/	Repackagers \		
	Mixture producers		
	Article producers		\
	Other chemical manufacturers		
	or processors		
	Exporters		
\	Other (specify)		\ \
7	\		
6.05	Substitutes List all known commer for the listed substance and state t	cially feasible substitutes	that you know exist
<u>CBI</u>	feasible substitute is one which is in your current operation, and which performance in its end uses.	economically and technologic	cally foacible to war
í <u> </u> j	Substitute	·	Cost (S/kg)
	No substitutes currently know	n	
[_]	Mark (X) this box if you attach a co	ntinuation sheet.	

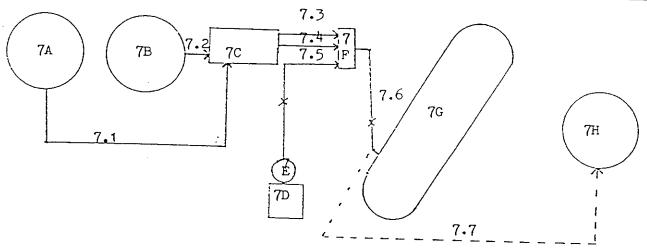
General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

Process type Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

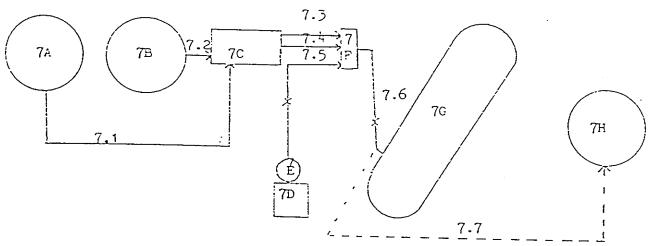
7H = Clean-out Solution Drum

^[] Mark (X) this box if you attach a continuation sheet.

7.03. In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions type, provide a process block flow diagram from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

| Process type Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

^[] Hark (X) this box if you attach a continuation sheet.

<u>CBI</u>	Process oron	e typical equipment type ck flow diagram(s). If ocess type, photocopy the e.	a nrocess block flo	u dinarom ia orau	:
[_]	Process type	Batch-	Polyurethane Polyme	rization	
	Unit Operation ID Number 7A	Typical Equipment <u>Type</u> Drum	Operating Temperature Range (°C) Ambient	Operating Pressure Range (mm Hg)	Vessel Composition
	7B	Drum		Atmospheric	Steel
	7C	Metering Pump	Ambient	Atmospheric	Steel
	7D		Ambient	Atmospheric	Stainless
		5 Gallon Can	Ambient	Atmospheric	Steel
	7E	Pump	Ambient	Atmospheric	Steel
	<u>7</u> F	Mixing Head	Ambient	Atmospheric	Stainless Steel
	7G	Tire	Ambient	Atmospheric	Vul. Rubber
	<u>7H</u>	Drum	Ambient	<u>Atmospheri</u> c	Steel

			,	.	
		i			

[_] Mark (X) this box if you attach a continuation sheet.

]	Process type .	Batch - Polyurethane	Polymerization	
	Process			
	Stream ID	Process Co.		
	Code	Process Stream <u>Description</u>	Physical State ¹	Stream Flow (kg/
	7.1	TDI Prepolymer	OL	2208
	7.3	TDI Prepolymer	OL	2208
	7.6	Polymerizing Polyurethane	OL	4416
			-	
			-	
	¹ Use the follow	Jing codes to designed about		
	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous 3 OL = Organic 3	liquid	nd pressure) and pressure)	
	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous 3 OL = Organic 3	densible at ambient temperature a ondensible at ambient temperature s slurry liquid liquid	nd pressure) and pressure)	
	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous 3 OL = Organic 3	densible at ambient temperature a ondensible at ambient temperature s slurry liquid liquid	nd pressure) and pressure)	
-	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous 3 OL = Organic 3	densible at ambient temperature a ondensible at ambient temperature s slurry liquid liquid	nd pressure) and pressure)	
	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous 3 OL = Organic 3	densible at ambient temperature a ondensible at ambient temperature s slurry liquid liquid	nd pressure) and pressure)	
	GC = Gas (cond GU = Gas (unco SO = Solid SY = Sludge or AL = Aqueous 3 OL = Organic 3	densible at ambient temperature a ondensible at ambient temperature s slurry liquid liquid	nd pressure) and pressure)	

7.06 CBI	this questi	e each process stream ides block flow diagram is pon and complete it separates for further explanation	provided for mor stelv for each o	re than one pro-	cocc tupo shak
[_]	Process typ	e Batch - P	olyurethane Pol	ymerization	
	a.	b.	с.	d.	e.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	7.1	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA
		Petroleum Hydrocarbon	55 ± 5.0 (E) (W)	NA	NA NA
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W)	NA	NA
	7.3	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA
		Petroleum Hydrocarbon	55 ± 5.0	NA	NA
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W)	NA .	NA
	7.6	Polyurethane	(분) ⁻ (위)	NA	NA
		Toluene Diisocyanate	(E) (W)	NA	NA
		Amine	<u> </u>	NA	NA
	~				
7.06	continued b	elov			

[] Mark (X) this box if you attach a continuation sheet.

7.06	(continued)
------	-------------



For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentration (% or ppm)
1		
0		-
2		
		Facility and
3		
	-	
4		
5		
Use the following codes	to designate how the concentrat	ion was determined:
A = Analytical result	a graduation the concentrat	zon tas determined.
E = Engineering judgeme	nt/calculation	
Use the following codes	to designate how the concentrat	ion was measured:
V = Volume		
V = Weight		

8.01 CBI	which describes the treatment process used for residuals identified in question 7.01						
<u> </u>	Process	type	Beto	h - Polygrothene	. Dolamoni Ai -	_	
(<u> </u>	rrocess			n - Polyare Chane	Polymerizatio	n	
			NA			•	
		,				•	
			,				

B.05	Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than on process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)							
[_]		type	-		thane Polymeri			
	a.	b.	C.	d.	е.	f.	g.	
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ⁴ ,5,6	Other Expected Compounds	Estimated Concen- trations (% or ppm)	
								
				144				
							_	
	-	·						
					77.1			
						-		
.05	continue	ed below	-					

¹Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

S0 = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

^[] Mark (X) this box if you attach a continuation sheet.

8.0	5	Cont	inued)
\cdots	_		IIIucu ,

NA

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

	Additive Package Number	Components of Additive Package	Concentrations
		AddItive rackage	(% or ppm)
	1		-
			-
	2		•
	2		trate and the same
	3		
	4		
	5		-
	Use the following codes	to designate how the concentration	on was determined:
	A = Analytical result		
	E = Engineering judgemen	t/calculation	
8.05	continued below		
3.05	continued ofton		
, — .			700
[_]	Mark (X) this box if you	attach a continuation sheet.	
		56	
		J 0	

8.	.05	(continued)
•		(CONCINCO)

NA

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method	Detection Limit (<u>+</u> ug/l)
1		•
2		•
3		
4		
5		
6		

 $[\]$ Mark (X) this box if you attach a continuation sheet.

BI — 1	Process	type	Bat	ch - Polyure	thane Polymerizati	on	
_,	a.	b.	NA C.	d.	-	f.	
	Stream ID Code	Waste Description Code	Management Method Code ²	Residual Quantities (kg/yr)	Management of Residual (%) On-Site Off-Site	Costs for Off-Site Management	g. Changes i Managemen Methods
						•	

				-			
							and and
				-			

	¹ Use the	e codes prov	ided in Exhi ided in Exhi	bit 8-1 to d	esignate the waste	descriptions	s s

8 22	(by capacity)	onbustion chamber of incinerators that a	are Wised on.	-cita to hur	the rec	e three la	rgest
CBI \	your process b	lock or residual t	reatment blo	ock flow dia	igram(s).	iddais ide	intiled in
[_]		Combustion Chamber Temperature (°C	C)	Location of Temperatur Monitor	•	In Com	nce Time bustion (seconds)
	Incinerator	Primary Second	dary Prim	ary Seco	ondary	Primary	Secondary
	1						
	2			\			
				_			
	Indicate by circl:	if Office of Solid	d Waste surve response.	ey has been	submitte	d in lied	of response
	Yes	\		• • • • • • • • • • • • • • • • • • • •	.\	• • • • • • • • •	1
	No				\	• • • • • • • • • • • • • • • • • • • •	2
		\					
8.23 <u>CBI</u>	are apea 011-21	ollowing table for te to burn the resi c flow diagram(s). NA	the three liduals ident	argest (by ified in yo	capacity) ur proces	incinerato s block or	ors that residual
[_]			Air Pollutio	n		Types Emission:	
	Incinerator		ontrol Devic			Availa	
	1				 		
	2	_	-				
	3	_		PA:	 	T	
	by cricia	if Office of Soliding the appropriate	response.				•
		ing codes to desig					
	S = Scrubber (include type of so					
[_]	Mark (X) this b	ox if you attach a	continuati	on sheet.		.,	77-7-1

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

<u>CBI</u>	the following data elements for element the year in which you records for that data element explanation and an example.)	u began maintaining records and the number of years the tare maintained. (Refer to the instructions for further						
	<u>D</u> :			Year in Which	Number of			
	Data Element	Hourly Workers	Salaried Workers	Data Collection Began	Years Records Are Maintained			
	Date of hire	X	X	1986	Indefinite			
	Age at hire							
	Work history of individual before employment at your facility				•			
	Sex							
	Race							
	Job titles							
	Start date for each job title							
	End date for each job title							
	Work area industrial hygiene monitoring data							
	Personal employee monitoring data							
	Employee medical history							
	Employee smoking history							
	Accident history							
	Retirement date							
	Termination date							
	Vital status of retirees							
	Cause of death data							

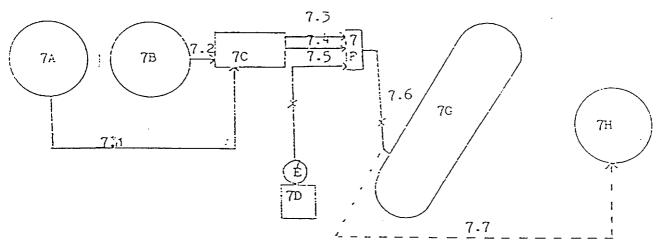
a.	b.	c.	d.	e.
Activity	Process Category	Yearly Quantity (kg)	Total Workers	Tot Worker-
Manufacture of the	Enclosed	D.	workers	WOLKEL-
listed substance	Controlled Release		- N	•
	0pen	0	100	••
On-site use as	Enclosed	176.6	1	192
reactant	Controlled Release			
	0pen	D		
On-site use as nonreactant	Enclosed	<u> </u>		
Monreactant	Controlled Release	<u> </u>		***
	0pen	0		
On-site preparation of products	Enclosed	<u> </u>	\$1.71 A.1.	
	Controlled Release			<u></u>
	Open	<u> </u>		
			•	

.03 [']	Provide a descriptive encompasses workers w listed substance.	e job title for each labor category at your facility that who have potentially come in contact with or be exposed to the
_]		
Ī	abor Category	Descriptive Job Title
	A	Shop Service Man
	В	Shop Service Manager Service Manager
	С	
	D	
	Е	
	F	
	G	
	Н	
	I	
	J	
		·

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

Process type Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

Note: All above is considered one work area

9.05 ., CBI	additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
[_]	Process type	Batch - Polyurethane Polymerization
	Work Area ID .	Description of Work Array
	1	Description of Work Areas and Worker Activities Pumping TDI/Amine solutions to mixer, filling tires through valve stem with polyurethane, and cleaning hosing with alcohol
	2	
	3	
	4	
	5	•
	6	
	7	
	8	
	9	
	10	
		•
	•	
		you attach a continuation sheet.

CBI	come in conta	ategory at your act with or be	tacility that exposed to the	t encompasses wo e listed substan	ed in question 9 rkers who may po ce. Photocopy tl k area.	tentiallv		
<u></u>	and complete it separately for each process type and work area. Process type Batch - Polyurethane Polymerization							
·,				-1-2	22401011			
	work area		• • • • • • • • • • • • • •	·····				
	Labor Category	Number of Workers Exposed	Mode of Exposur (e.g., dire skin contac	ect Listed	f Length of Exposure	Number of Days per Year Exposed		
	NA NA	<u>Close</u> <u>Close</u> o		tem				
	Use the following the point of	loving codes to E exposure:	designate the	e physical state	of the listed s	ubstance at		
	temper GU = Gas (t temper	condensible at cature and presuncondensible a cature and presules fumes, vapo	sure) t ambient sure;		liquid liquid			
	² Use the foll	lowing codes to	designate av	erage length of	exposure per day	:		
	exceedir	tes or less than 15 minute ng 1 hour than one hour,		exceeding	han 4 hours, but			

	Weighted Average (1	egory represented in question 9.06 TWA) exposure levels and the 15-mistion and complete it separately f	nute peak exposure levels.
BI			
	Process type	. Batch - Polyurethane Polymer	rization
	Work area	••••••	1
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
	*	*	*
	-		

			•
* No	tests have been con	ducted	
		•	
		If you attach a continuation sheet	

80	If you monitor worke	er exposur	e to the li	sted substa	nce, compl	ete the fo	llowing table
<u> </u>	No mon	nitor wo rk	er exposure	available			
1		Work	Testing Frequency	Number of Samples	Who	Analyzed In-House	Number of Years Record:
	Sample/Test	Area ID	(per year)	(per test)	Samples ¹	(Y/N)	Maintained
	Personal breathing zone						
	General work area (air)				-		
	Wipe samples	•					•
	Adhesive patches						
	Blood samples					***************************************	
	Urine samples						
	Respiratory samples						
	Allergy tests						****
	Other (specify)						
	Other (specify)						
	Other (specify)						
	¹ Use the following c			o takes the	monitorin	g samples:	
	A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify)	er	st				

nipment Type	Do not conduction for Do not conduction Limi		Averaging Time (hr)	Model Numbe		
nipment Type	Do not conduction for Do not conduction Limi	r each equipment ty t t Manufacturer	Averaging Time (hr)			
nipment Type	Do not conduction for Do not conduction Limi	r each equipment ty t t Manufacturer	Averaging Time (hr)			
nipment Type	Do not conduction for Do not conduction Limi	r each equipment ty t t Manufacturer	Averaging Time (hr)			
	Detection Limi	t ² <u>Manufacturer</u>	Time (hr)	Model Numbe		
			Time (hr)	Model Numbe		
he following o	odes to designat	e personal air moni				
assive dosimet Detector tube Charcoal filtra Other (specify)	ition tube with p	ump				
Use the following codes to designate ambient air monitoring equipment types:						
tationary moni tationary moni obile monitori	tors located wit tors located at ng equipment (sp	hin facility				
		e detection limit u	nits:			
pm ibers/cubic ce	entimeter (f/cc)					
	ther (specify) he following of tationary monitationary monitationary monitorion tobile monitorion ther (specify) he following of the following of the following of the following of the following of	ther (specify) the following codes to designate tationary monitors located with tationary monitors located with tationary monitors located at tobile monitoring equipment (specify) ther (specify) the following codes to designate	the following codes to designate ambient air monitors tationary monitors located within work area tationary monitors located within facility tationary monitors located at plant boundary obile monitoring equipment (specify) ther (specify) the following codes to designate detection limit upon the continuence of the c	ther (specify) the following codes to designate ambient air monitoring equipment stationary monitors located within work area stationary monitors located within facility stationary monitors located at plant boundary sobile monitoring equipment (specify) sther (specify) the following codes to designate detection limit units: spm spm sibers/cubic centimeter (f/cc)		

	Test Descr		ts conducted	(weekly, mon	requency thly, yearly, etc

esserie:					
			-		
-			-		•
					·
		·			
	·				

9.12 <u>CBI</u>	Describe the engineering conto the listed substance. Plancess type and work area.	notocopy this d	use to reduce o question and comp **	r eliminate wor lete it separat	ker exposure ely for each
[_]	Process type	. Batch -	Polyurethane Poly	merization	
	Work area	• • • • • • • • • • • • • • • • • • • •		1	
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust	*			•
	General dilution				
	Other (specify)				
	Vessel emission controls				
	Mechanical loading or packaging equipment				
	Other (specify)			7-301.	
*	Not aware that any engineering	g controls are	needed		

[_] Mark (X) this box if you attach a continuation sheet.

- :		
9.13: CBI	Describe all equipment or process modifications you have mapping to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modification the percentage reduction in exposure that resulted. Photocomplete it separately for each process type and work area	ion of worker exposure to ication described, state
 [_]	Process type Batch - Polyurethane Polymerizati	.on
		1
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
		•
	No Modifications	

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

PART	D PERSONAL PROTECT	IVE AND SAFETY EQUIPMENT		
9.14 <u>CBI</u>	in each work area	nal protective and safety equing order to reduce or eliminatory this question and complete	te their evnosure i	o the listed
[_]	Process type	Batch - Polyurethane	Polymerization	
	Work area	• • • • • • • • • • • • • • • • • • • •		1
		Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Wear or Use (Y/N) NO YeS NO NO YeS YeS	

[_] Mark (X) this box if you attach a continuation sheet.

9.15	If workers use respirators when working with the listed substance, specify for each process type, the work areas where the respirators are used, the type of respirators used, the average usage, whether or not the respirators were fit tested, and the type and frequency of the fit tests. Photocopy this question and complete it separately for each process type.
<u>CBI</u>	
[_]	Process type Batch - Polyurethane Polymerization
	Work Respirator Average Tested Type of Fit Tests Area Type Usage (Y/N) Fit Test (per year)
	NA Closed System
	•
	¹ Use the following codes to designate average usage:
	<pre>A = Daily B = Weekly C = Monthly D = Once a year E = Other (specify)</pre>
	² Use the following codes to designate the type of fit test:
	QL = Qualitative QT = Quantitative
[_]	Mark (X) this box if you attach a continuation sheet.

authorized workers, mark areas with varning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area. Process type Batch - Polyurethane Polymerization Work area 1 Area is not restricted 9.20 Indicate (X) how often you perform each housekeeping task used to clean up routin leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area. Process type Batch - Polyurethane Polymerization Work area 1	PART	E WORK PRACTICES							
Process type Batch - Polyurethane Polymerization Work area	CBI	eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this							
Area is not restricted 2.20 Indicate (X) how often you perform each housekeeping task used to clean up routin leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area. Process type Batch - Polyurethane Polymerization Work area 1 Housekeeping Tasks Once Per Day Per Day Times Per Day Sweeping Vacuuming Vater flushing of floors]	Process type	Batch - Polyur	ethane Polymer	rization				
Indicate (X) how often you perform each housekeeping task used to clean up routin leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area. Process type Batch - Polyurethane Polymerization Work area 1 Less Than 1-2 Times 3-4 Times More Than Once Per Day Per Day Per Day Times Per Day Vacuuming Vacuuming Vater flushing of floors		Work area	•••••	• • • • • • • • • • • • • • • • • • • •	1				
leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area. Process type Batch - Polyurethane Polymerization Work area 1 Less Than 1-2 Times 3-4 Times More Than Once Per Day Per Day Times Per Day Times Per Day Sveeping Vacuuming Vacuuming Vater flushing of floors		Area is not restr	icted						
leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area. Process type Batch - Polyurethane Polymerization Work area 1 Less Than 1-2 Times 3-4 Times More Than Once Per Day Per Day Times Per Day Per Day Times Per Day Sweeping Vacuuming Vacuuming Vater flushing of floors			***		The state of the s				
leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area. Process type Batch - Polyurethane Polymerization Work area									
leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area. Process type Batch - Polyurethane Polymerization Work area									
Less Than 1-2 Times 3-4 Times More Than Housekeeping Tasks Once Per Day Per Day Per Day Sweeping Vacuuming Vater flushing of floors	9.20								
Housekeeping Tasks Once Per Day Per Day Per Day Times Per D Vacuuming Vater flushing of floors	.20	separately for each proces	sted substance. ss type and work	Photocopy thi area.	s question an	ean up routine nd complete it			
Vacuuming Water flushing of floors	.20	separately for each proces Process type	sted substance. s type and work Batch - Polyuret	Photocopy thi area. hane Polymeri	s question an	ean up routine nd complete it			
Water flushing of floors	.20	rocess type Work area	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeri 1-2 Times	s question anzation 1 3-4 Times	More Than 4			
	.20	Process type Work area	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeri 1-2 Times	s question anzation 1 3-4 Times	d complete it			
Other (specify)	.20	Process type Work area Housekeeping Tasks Sveeping	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeri 1-2 Times	s question anzation 1 3-4 Times	More Than 4			
	.20	Process type Work area Housekeeping Tasks Sweeping Vacuuming	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeri 1-2 Times	s question anzation 1 3-4 Times	More Than 4			
	.20	Housekeeping Tasks Sweeping Vacuuming Vater flushing of floors	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeri 1-2 Times	s question anzation 1 3-4 Times	More Than 4			
	9.20	Housekeeping Tasks Sweeping Vacuuming Vater flushing of floors	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeri 1-2 Times	s question anzation 1 3-4 Times	More Than 4			
	9.20	Housekeeping Tasks Sweeping Vacuuming Vater flushing of floors	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeri 1-2 Times	s question anzation 1 3-4 Times	More Than 4			
	9.20	Housekeeping Tasks Sweeping Vacuuming Vater flushing of floors	ted substance. s type and work Batch - Polyuret Less Than	Photocopy thi area. hane Polymeri 1-2 Times	s question anzation 1 3-4 Times	More Than 4			

9/	21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance:
		Routine exposure
		Yes
		Emergency exposure
		Yes
		If yes, where are copies of the plan maintained?
\		Routine exposure:
		Emergency exposure:
9.	22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	(res No. I. No. 45. Si cient amount to be required 2
		If yes, where are copies of the plan maintained?
		Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
		Yes
	(No Insufficient amount to be required 2
9.	23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
		Plant safety specialist
		Insurance carrier
		OSHA consultant
_		Other (spedify)
[_	_]	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.
<u>CBI</u>	
[_]	Industrial area
	Urban area
	Residential area
	Agricultural area
	Rural area
	Adjacent to a park or a recreational area
	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility
	Within 1 mile of a non-navigable waterway
	Other (specify)

10.02	Specify the exact location of you is located) in terms of latitude (UTM) coordinates.	r facility (from cer and longitude or Uni	ntral point where iversal Transvers	e process unit se Mercader
	Latitude	••••••	34.5	3 · 47 N
	Longitude	••••••	82°1.	3 · 7W
	UTM coordinates Zone	, North	ning, Ea	asting
10.03	If you monitor meteorological conthe following information.	ditions in the vicir	ity of your faci	lity, provide
	Average annual precipitation			inches/ye
	Predominant wind direction	\		•
		\		
10.04	Indicate the depth to groundwater	below your facility	7 -	
10.04	Indicate the depth to groundwater Depth to groundwater	\ .	7 -	
	Depth to groundwater			meters
		indicate (V(N/N/)		
10.05	Por each on-site activity listed, listed substance to the environment	indicate (Y/N/NA) ant. (Refer to the i		ases of the a definition
10.05 CBI	Depth to groundwater For each on-site activity listed, listed substance to the environment Y, N, and NA.)	indicate (Y/N/NA) ant. (Refer to the i	all routine releadinstructions for	uses of the a definition
10.05 CBI	Depth to groundwater For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity	indicate (Y/N/NA) ant. (Refer to the i	all routine releadinstructions for vironmental Relead	uses of the a definition use Land
10.05 CBI	Depth to groundwater For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing	indicate (Y/N/NA) ant. (Refer to the integral Enverted Air NA	all routine releadinstructions for vironmental Releading Vater	ases of the a definition ase Land NA
10.05 CBI {}}	For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing	indicate (Y/N/NA) ant. (Refer to the integral Enveronment) Enveronment NA NA	all routine releadinstructions for vironmental Releading Vater NA NA	uses of the a definition use Land NA NA
10.05 <u>CBI</u> {}}	Por each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing	indicate (Y/N/NA) ant. (Refer to the integral Enveronment) Enveronment NA NA NA	all routine releadinstructions for vironmental Releading Vater NA- NA NA	uses of the a definition use Land NA NA NA NA
10.05 <u>CBI</u> [_]	Depth to groundwater For each on-site activity listed, listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used	indicate (Y/N/NA) ant. (Refer to the interpretation of the interpr	all routine releatinstructions for vironmental Releator NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-NA-N	uses of the a definition use Land NA NA

10.06	Provide the following information for the listed of precision for each item. (Refer to the instruction of th	substance and ctions for fur	specify the level ther explanation and
CBI	an example.)		
[_]	Overtite dischanged to the sign		
	Quantity discharged to the air	NA	kg/yr <u>+</u> %
	Quantity discharged in wastewaters	NA	kg/yr <u>+</u> %
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA	kg/yr <u>+</u> %
	Quantity managed as other waste in off-site treatment, storage, or disposal units	NA	kg/yr <u>+</u> %
			•

[] Mark (X) this box if you attach a continuation sheet.

10.08	Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type.						
(-)	Process type	Batch - Polyurethane Polymerization					
	Stream ID Code	NA - Essential a closed system Control Technology	Percent Efficiency				
			•				

10.09 PG	oint Source Emission	ons Identify each emission point source containing the listed					
CBI re	substance in terms of a Stream ID Code as identified in your process block or residual treatment block flow diagram(s), and provide a description of each point source. Do not include raw material and product storage vents, or fugitive emissions.						
[_] \$	ources (e.g., equipor each process typ	ment leaks). Photocopy this question and complete it separately					
	cocess type	Batch - Polyurethane Polymerization					
Po:	int Source						
	ID Code	Description of Emission Point Source					
		NA					
-							

-							

Point		Stack Inner	NA	Emission			
Source ID Code	Stack Height(m)	Diameter (at outlet) (m)	Exhaust Temperature (°C)	Exit Velocity (m/sec)	Building Height(m) ¹	Building Vidth(m)	Ver Tyl
4449							
			· .				
	4-1-1-1						
							·
-							
· · · · · · · · · · · · · · · · · · ·							<u></u>
¹ Height o	f attached	or adjacent	building				
		or adjacent					
		codes to des	ignate vent	type:			
H = Hori V = Vert							

10.12 CBI	distribution for each Point Source	in particulate form, indicate the particle size ID Code identified in question 10.09. ete it separately for each emission point source.				
[_]	NA Point source ID code					
	Size Range (microns)					
	< 1	Mass Fraction (% ± % precision)				
	≥ 1 to < 10					
	≥ 10 to < 30	•				
	≥ 30 to < 50	· · · · · · · · · · · · · · · · · · ·				
	≥ 50 to < 100					
	≥ 100 to < 500					
	≥ 500					
	2 300					
		Total = 100%				
	•					

10 12		_								
10.13 CBI	Equipment Leaks Complete the following table by providing the number of equipment types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated exposed to the listed substance. Photocopy this question and complete it separated									
[_]	product type.									
·	Percentage of time									
	Percentage of time per yea type	r that the li	sted sub:	stance is	exposed	to this p	rocess			
						· •				
			of Lister	nents in : d Substan	service b ce in Pro	y Weight . cess Stre	Percent. am			
	Equipment Type	Less than 5%	5-10%				Greater			
	Pump seals ¹	<u> </u>	<u> </u>	11-23%	26-75%	76-99%	than 99%			
	Packed	Ì								
	Mechanical					-	•			
	Double mechanical ²	•								
	Compressor seals ¹									
	Flanges									
	Valves				-					
	Gas ³									
	Liquid						-			
	Pressure relief devices						·			
	(Gas or vapor only)	4				-				
	Sample connections									
	Gas									
	Liquid		 -			 .				
	Open-ended lines ⁵ (e.g., purge, vent)									
	Gas									
	Liquid						· · · · · · · · · · · · · · · · · · ·			
	¹ List the number of pump ar compressors	d compressor	seals, r	ather tha	an the nur	mber of p	umps or			
0.13	continued on next page									

10.13	(continued)							
	² If double mechanical sea greater than the pump ste will detect failure of the with a "B" and/or an "S"	uffing box pressure a he seal system, the b	ind/or equipped wit	h a sensor (S) that				
	³ Conditions existing in the valve during normal operation							
	⁴ Report all pressure relic control devices			equipped with				
	⁵ Lines closed during norma operations	al operation that wou	ald be used during	maintenance				
10.14 CBI	Pressure Relief Devices was pressure relief devices in devices in service are content "None" under column	dentified in 10.13 to ntrolled. If a press	, indicate which n	coccure relief				
[_]	a. NA	b.	c.	d.				
	Number of Pressure Relief Devices	Percent Chemical in Vessel	Control Device	Estimated Control Efficiency				

	Substance" (e.g., <5%, 5-2	Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.) The EPA assigns a control efficiency of 100 percent for equipment leaks controlled						
	with rupture discs under refficiency of 98 percent conditions	normal operating cond	litions. The EPA $lpha$	assions a control				
	785 10-61							

[__] Mark (X) this box if you attach a continuation sheet.

.10.15	place, complete the	following table reg	ction and repair program is in se leak detection and repair it separately for each process					
[_]	Process type			Batch - Pe	olyurethane]	Polymerization		
		Leak Detection Concentration (ppm or mg/m³) Measured at Inches	Detection	Frequency of Leak	•	Repairs Completed		
	Equipment Type	from Source	Device		detection)	initiated)		
	Pump seals Packed Mechanical Double mechanical	APA NO	Leaks	Cle	osed Sys	stem.		
	Compressor seals							
	Flanges							
	Valves							
	Gas							
	Liquid				4 (0.4, 4.4)			
	Pressure relief devices (gas or vapor only)							
	Sample connections			· · · · · · · · · · · · · · · · · · ·				
	Gas							
	Liquid							
	Open-ended lines				****			
	Gas							
	Liquid							
	¹ Use the following codes to designate detection device:							
	FPM = Fixed point π	ganic vapor analyzer nonitoring						
				· · · · · · · · · · · · · · · · · · ·				
[_] +	Mark (X) this box if	you attach a contin	uation shee	et.				

[] Ma	10.16 <u>CBI</u>	Raw Material, Intermediate and Product Storage Emissions Complete the following table by providing the information on each liquid raw material, intermediate, and product storage vessel containing the listed substance as identified in your process block or residual treatment block flow diagram(s).													
ark (X) this box if you attach a continuation sheet.		Vessel Type		Composition of Stored Materials	Throughput (liters per year)	Vessel Filling Rate (gpm)	Vessel Filling Duration (min)	Vessel Inner Diameter (m)			Vessel Emission Controls	Design Flow Rate		Control Efficiency (%)	Basis for Estimate
	Use the following codes to designate vessel type: F = Fixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground						<pre> 2 Use the following codes to designate floating roof seals: MS1 = Mechanical shoe, primary MS2 = Shoe—mounted secondary MS2R = Rim—mounted, secondary IM1 = Liquid—mounted resilient filled seal, primary IM2 = Rim—mounted shield IMW = Weather shield VM1 = Vapor mounted resilient filled seal, primary VM2 = Rim—mounted secondary VMW = Weather shield </pre>							 s:	
	Indicate weight percent of the listed substance. Include the total volatile organic content in parenthesis Other than floating roofs Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units) Use the following codes to designate basis for estimate of control efficiency: C = Calculations S = Sampling														

120

PART E	N⊕N-ROUTINE	RELEASES
44444	MAN-MODITIVE	Kringass

10.23	Indicate the date and time when the release occurred and when the release ce	eased or
	was stopped. If there were more than six releases, attach a continuation sh list all releases.	neet and

Release		Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1		NA	NO Releases	180.0	
2					
3	<i>*</i>				
4					
5					e
6					***************************************
				~	

10 24 Specify the weather conditions at the time of each release.

Release	Wind Speed (km/hr)	Wind Direction	Humidity(%)	Temperature (°C)	Precipitation (Y/N)
1					
3					\
4					
			\		
6			\		
			\		

[] Mark (X) this box if you attach a continuation sheet.